

Subject name **Digital Technologies**

Subject code DIG

Course overview Year 7 Digital Technologies will involve students learning about and working with traditional, contemporary and emerging technologies that shape the world in which we live. Students will apply a range of skills and processes in the production of digital solutions. Digital Technologies introduces students to practical and theoretical areas covered in Year 9 and 10 and thus assists them to make decisions regarding the choice of Business and Digital Technology subjects at the completion of Year 8.

Course outline

- Investigate how data, including text, images and sound, is represented in binary
- Investigate how data is transmitted and secured in networks, and how the specifications affect performance
- Acquire and analyse data from a range of sources
- Design and implement digital solutions to problems using both coding and robotics
- Evaluate existing digital solutions
- Use algorithms including flow charts, storyboards and pseudo-code to design digital solutions
- Test algorithms for accuracy
- Define and analyse real-world problems, taking into account economic, environmental, social, technical and usability constraints
- Create and communicate ideas and information collaboratively online, taking safety and social contexts into account

Assessment A portfolio of tasks will form the assessment requirement for this subject. Students will be required to prepare their responses using computers and various software programs.

Subject requirements Students are required to have:

- A pair of headphones or earphones
- Minimum of 16 GB USB

BYOD program Please refer to the 'Bring Your Own Device (BYOD) booklet for the specifications required before purchasing a device. The desirable BYOD computer is an i5 Intel or higher, allowing for faster processing speed and storage of software and files.